

List of Current Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-7 (canceled).

8. (New) A measuring device for the conditioning, output and forwarding of sensor signals in the context of a liquid and/or gas analysis, comprising:

a housing of an electrically conductive material;

at least one cable gland in the wall of said housing for a shielded sensor signal line for the transmission of the sensor signals; and

an electrically conductive connection between a shielding of said sensor signal line and said housing, wherein:

said at least one cable gland has regions of an electrically conductive material and means for the electrical contacting of said regions both with said shielding of said sensor signal line and with said housing; and

said regions serve for creating an electrically conductive connection between said shielding and said housing.

9. (New) The measuring device as claimed in claim 8, wherein:

each cable gland has a body which comprises an electrically conductive material.

10. The measuring device as claimed in claim 8, further comprising:

a computing unit, especially a microprocessor, for processing the sensor signals and at least one sensor circuit arranged between said computing unit and said sensor signal line for the preprocessing of the sensor signals, wherein:

each sensor circuit is galvanically decoupled from the remainder of the measuring device.

11. (New) The measuring device as claimed in claim 10, further comprising:
optocouplers for the galvanic decoupling of each of said sensor circuit from the remainder of the measuring device.

12. (New) The measuring device as claimed in claim 8, further comprising:
at least one power supply circuit for the supply of each of said sensor circuit with energy, wherein:

said power supply circuit has means for decoupling the measuring device from said power supply.

13. (New) The measuring device as claimed in claim 12, wherein:
said means for decoupling are in the form of at least one transformer.

14. (New) The measuring device as claimed in claim 8, further comprising:
at least two analog outputs, wherein:
said analog outputs are galvanically decoupled from one another.